

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 85-83

WASTE DISCHARGE REQUIREMENTS FOR:

AMERICAN CANYON SANITARY LAND-FILL CO., INC.  
CLASS III LANDFILL AND CLASS II WASTE MANAGEMENT UNIT  
NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. The American Canyon Sanitary Land-Fill Co., Inc. (hereinafter called the discharger) owns and operates the American Canyon Solid Waste Disposal Site, a Class III landfill. The 130 acre site is located on a marshland flood plain along the east bank of the Napa River off Eucalyptus Drive at Napa Junction, as shown on Attachment A which is incorporated herein and made a part of this Order. A pond located in the southeast corner of the Phase I area is used to hold leachate from the Phase I area. The leachate is evaporated and/or used for dust control during the summer.
2. The waste discharge for the northern 69 acres of the site (Phase I on Attachment A) is currently governed by requirements contained in Order No. 79-115, adopted on September 18, 1979, as amended by Order No. 81-62, adopted on November 18, 1981.
3. The entire site is underlain by silty clays of generally low permeability, commonly known as Bay Mud, from a minimum depth of 19 to over 50 feet below ground surface. Poor quality ground water exists within 2 feet of the ground surface. Surface water close to the site includes the Napa River along the western boundary and intermittent drainage channels which drain to the Napa River on the three remaining boundaries.
4. The discharger accepts approximately 650 cubic yards of refuse per day, including triple-rinsed pesticide containers in accordance with Napa County Public Health Department regulations.
5. The site, subsequent to any modifications required to comply with this Order, will meet the criteria contained in Title 23, Chapter 3, Subchapter 15 (Subchapter 15) of the California Administrative Code which became effective on November 26, 1984 for classification of the site as a Class III landfill to receive non-hazardous solid waste and a Class II waste management unit to receive designated waste (leachate).
6. The discharger submitted a site closure plan dated May 1983, prepared by Emcon Associates, and subsequently modified the plan in May 1985.
7. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on July 21, 1982. This Order implements the water quality objectives stated in the Basin Plan.

8. The discharger is considering various options for leachate disposal. These options include discharge to the sanitary sewer and evaporation in ponds. A year-long study is proposed by the discharger to more precisely determine the quality and quantity of leachate generated by the landfill before a final decision is made on a disposal method.
9. The discharger is exempt from Section 2530(c) of Subchapter 15 (5 foot setback from ground water) for the following reasons:
  - 1) The Phase I area is underlain by relatively impermeable Bay Mud and is surrounded by a leachate collection and removal system;
  - 2) The expansion area will be underlain by 5 feet of Bay Mud, compacted as needed to a maximum permeability of  $1 \times 10^{-6}$  cm/sec and a dendritic (branching) leachate collection and removal system; and
  - 3) The measures described in 1) and 2) provide an equivalent level of water quality protection as the prescriptive standard which is unreasonable in this situation.
10. The beneficial uses of the Napa River in the vicinity of the site are:
  - a. Navigation
  - b. Contact and non-contact water recreation
  - c. Warm and cold fresh water habitat
  - d. Wildlife habitat
  - e. Preservation of rare and endangered species
  - f. Fish migration and spawning
11. The action to revise waste discharge requirements and continue operation of an existing landfill is exempt from the California Environmental Quality Act (Public Resources Section 2100 et seq.) in accordance with Section 15301 of the Public Resources Code.
12. The Board notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
13. The Board, in a public hearing held on June 19, 1985, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the discharger and any other persons that own the land or operate this site shall meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder and shall comply with the following:

A. Prohibitions

1. The disposal of wastes shall not create a pollution or nuisance as defined in Sections 13050 (1) and (m), respectively, of the California Water Code.
2. Wastes shall not be placed in or allowed to contact ponded water from any source whatsoever.

3. Wastes shall not be disposed of in any position where they can be carried from the disposal site and discharged into waters of the State or United States which are outside the authorized disposal area.
4. Hazardous wastes shall not be deposited or stored at this site.
5. Wastes shall not be deposited in the Class III landfill unless they contain at least 50 percent solids.
6. The discharge of waste shall not cause the following conditions to exist in waters of the State or United States at any place outside the authorized disposal area:
  - a. Surface Waters
    - i. Floating, suspended, or deposited macroscopic particulate matter or foam;
    - ii. Bottom deposits or aquatic growths;
    - iii. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
    - iv. Visible, floating, suspended, or deposited oil or other products of petroleum origin; or
    - v. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or wildfowl or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
  - b. Groundwater
    - i. The groundwater shall not be degraded as a result of the solid waste disposal operation.
7. Leachate from wastes and ponded water containing leachate or in contact with refuse shall not be discharged to waters of the State or United States outside of the authorized disposal area.
8. Truck wash water or oil shall not be discharged to the landfill or to waters of the State or United States, unless approved in writing by the Executive Officer.
9. Spraying of leachate is prohibited during rainfall or at times when soils are saturated.

B. Specifications

1. Water used during disposal site operations shall be limited to the minimal amount necessary for dust control and fire suppression.

2. The site shall be protected from any washout or erosion of wastes or covering material and from inundation which could occur as a result of a 100-year, 24-hour precipitation for the Class III landfill or a 1000-year, 24-hour precipitation for the leachate containment pond.
3. Surface drainage from tributary areas and internal site drainage from surface or subsurface sources shall not contact or percolate through wastes during disposal operations and for the active life of the site. Perimeter drainage ditches and all other facilities shall be designed to convey the 100 year storm runoff and withstand differential settlement.
4. The site shall be located to comply with criteria and standards under Section 2533 of Subchapter 15. An exemption to this may be granted by the Board based on a demonstration submitted by the discharger pursuant to Sections 2510 (b) and (c) of Subchapter 15.
5. The leachate containment pond shall have a liner or liners according to the specifications and standards under Section 2542 and general construction standards under Section 2541 of Subchapter 15. An exception to this may be granted by the Board based on a demonstration submitted by the discharger pursuant to Sections 2510 (b) and (c) of Subchapter 15.
6. The leachate containment pond shall contain a minimum of 2 feet of freeboard at all times, and shall meet the criteria contained in Section 2548 of Subchapter 15.
7. The discharger shall assure that the foundation of the site and the structures which control leachate, surface drainage, erosion and gas for this site are maintained under conditions generated during the maximum probable earthquake for the Class III landfill and the maximum credible earthquake for the Class II unit.
8. As portions of the landfill are closed, the exterior surfaces shall be graded to a minimum slope of three percent in order to promote lateral runoff of precipitation. In addition, all completed disposal areas shall be covered with a minimum of three feet of uncontaminated material, one foot of which is compacted to attain a permeability no greater than  $1 \times 10^{-6}$  cm/sec. A lesser slope, thickness of final cover, or permeability may be allowed by the Board upon demonstration that erosion control, percolation control, and coverage of refuse will not be adversely affected.

C. Provisions

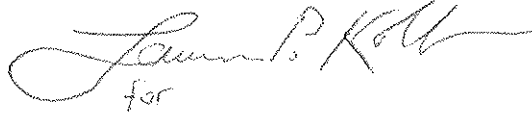
1. The discharger shall comply with all prohibitions, specifications, and provisions of this Order immediately upon adoption, except for Specifications B.2, B.3, B.4, B.5, and B.7. The discharger shall comply with these Specifications in accordance with the following time schedule:

- a. Submit report demonstrating compliance or submit a plan and time schedule for achieving compliance by November 1, 1985
  - b. Achieve full compliance with B.2, B.3, B.4, and B.7 by September 1, 1986
  - c. Achieve full compliance with B.5 by September 1, 1987
- 2. Reports pursuant to compliance with prohibitions, specifications, or provisions relative to Subchapter 15 shall be prepared under the supervision of a registered engineer or certified engineering geologist.
  - 3. Within 180 days after the completion of filling of any portions of the disposal areas, submit documentation that the exterior surfaces of these newly completed portions are covered and graded in accordance with Specification B.8.
  - 4. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.
  - 5. The discharger shall file with this Board a report of any material change or proposed change in the character, location, or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours, or ownership of the disposal area.
  - 6. The discharger shall maintain a copy of this Order at the site so as to be available at all times to site operating personnel.
  - 7. The Board considers the property owner and site operator to have a continuing responsibility for correcting any problems within their reasonable control which arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.
  - 8. The discharger shall comply with a self-monitoring program as may be ordered by the Executive Officer.
  - 9. The discharger shall permit the Board:
    - a. Entry upon premises on which wastes are located or in which any required records are kept;
    - b. Access to copy any records required to be kept under terms and conditions of this Order;
    - c. Inspection of monitoring equipment or records; and
    - d. Sampling of any discharge.
  - 10. These requirements do not authorize commission of any act causing injury to the property of another or of the public, do not convey any property rights, do not remove liability under federal, state,

or local laws, and do not authorize the discharge of waste without appropriate federal, state, or local permits, authorizations, or determinations.

11. Order Nos. 79-115 and 81-62 are hereby rescinded.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 19, 1985.

A handwritten signature in cursive script, appearing to read "Roger B. James".

for

ROGER B. JAMES  
Executive Officer

Attachment

